AMERICAN UNIVERSITY of Beirut. OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN : DIRECTOR

HALIM HOURANI : OBSERVER

BEIRUT, LEBANON

Latitude : 33° 54' 22" N.

Longitude : 2^h 21^m 52^s . 7 E.

LIBRARY
APR 3 1962
WEATHER BUREAU

December - 1961

DECEMBER 1961

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. †...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	68.6	66.8	67.1	67.5	21.0	16.7	16.9	19.0	17.6	17.8
2	67.1	65.0	64.6	65.6	23.0	17.9	17.8	20.0	18.0	18.6
3	63.7	61.8	62.3	62.6	24.4	18.2	21.1	21.0	18.5	20.2
4	62.0	61.0	61.9	61.6	23.0	19.0	18.8	20.9	20.0	19.9
5	62.9	61.0	60.5	61.5	23.5	15.7	20.9	21.0	21.1	21.0
6	59.4	57.7	58.4	58.5	21.6	15.3	17.6	18.6	16.7	17.6
7	59.2	57.8	59.4	58.8	20.6	14.8	17.4	19.0	16.1	17.5
8	60.7	59.5	59.9	60.0	19.0	14.5	16.6	18.6	15.6	16.9
9	59.4	60.0	61.6	60.3	21.2	15.7	19.0	19.5	16.9	18.5
10	60.5	58.7	58.3	59.2	19.3	12.6	17.0	18.0	14.6	16.5
11	58.6	56.6	57.8	57.7	15.9	12.7	13.0	14.6	14.5	14.0
12	57.7	55.0	54.3	55.7	17.7	14.5	16.2	16.9	16.6	16.6
13	52.5	51.8	52.5	52.3	17.2	11.9	15.7	14.2	13.1	14.3
14	52.2	54.5	58.3	55.0	15.6	10.9	13.2	14.7	14.2	14.0
15	61.3	61.5	61.9	61.6	17.7	15.0	14.8	16.2	15.6	15.5
16	61.8	60.6	61.1	61.2	20.5	14.6	17.1	19.2	16.2	17.5
17	60.4	61.1	63.5	61.7	19.7	12.2	18.6	16.5	14.2	16.4
18	65.8	64.3	65.4	65.2	18.3	14.1	15.2	16.9	15.5	15.9
19	65.5	63.3	62.5	63.8	19.1	14.0	15.1	18.2	16.2	16.5
20	59.8	57.4	57.1	58.1	20.0	14.5	15.4	17.3	15.1	15.9
21	53.6	52.8	53.1	53.2	17.4	11.6	15.4	12.6	14.7	14.2
22	53.7	54.6	57.9	55.4	17.1	11.7	15.3	15.9	14.6	15.3
23	58.7	57.7	62.3	59.6	15.4	12.0	13.5	14.3	14.0	13.9
24	66.0	64.9	65.2	65.4	17.5	11.0	13.2	15.3	13.1	13.9
25	64.9	63.5	64.7	64.4	18.4	12.2	13.5	16.0	13.6	14.4
26	64.9	63.7	64.0	64.2	17.6	13.8	13.7	16.5	15.5	15.2
27	63.4	63.6	64.9	64.0	18.1	14.5	16.8	17.4	16.2	16.8
28	67.3	66.1	67.2	66.9	19.7	14.1	15.8	17.6	16.0	16.5
29	67.1	64.7	64.2	65.3	18.1	14.8	14.8	17.8	15.5	16.0
30	65.2	61.7	61.9	62.3	20.2	14.9	17.0	18.5	16.8	17.4
31	62.8	61.6	61.9	62.1	20.0	12.4	16.1	17.7	15.5	16.4
	61.44	60.33	61.15	60.99	19.28	14.12	16.21	17.42	15.86	16.49

Barometer, range 768.6 mm — 751.8 mm
» 71-yrs. average 763.23 mm.
Thermometer, range 24.4 °C — 10.9 °C
« 82-yrs. average 15.6 °C
Rain. total for month 227.24 mm
« 82-yrs. average for month 188.0 mm
« total from Sept. 1st. 316.97 mm
« 82-yrs. average from Sept. 1st. 375.27mm

DECEMBER 1961

METEOROLOGICAL REGISTER

Date	Pressure of Water Vapour Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20 30	Mean	8.30	14:30	20:30	Mean	Hrs.	Kms.	m m
1	11.3	13.8	14.0	13.0	58	63	70	64	8.4	51	
2	13.3	16.2	16.7	15.4	66	69	81	72	8.0	64	
3	9.1	17.6	11.8	12.8	36	71	55	54	5.2	106	
4	12.1	16.1	16.4	14.9	56	65	70	64	5.5	34	
5	15.3	14.3	9.1	12.9	62	57	36	52	4.0	163	
6	14.9	14.1	13.8	14.3	75	67	73	72	4.5	132	1.70
7	13.6	14.6	16.6	14.9	68	67	92	76	3.3	116	1.90
8	13.7	13.7	10.7	12.7	74	65	61	67	2.8	148	4.60
9	10.2	13.6	10.1	11.3	46	59	52	52	5.8	375	
10	10.0	11.0	11.3	10.8	51	53	69	58	3.9	303	2.30
11	13.9	13.6	12.5	13.3	93	83	79	85	0.3	254	35.50
12	11.7	9.9	11.2	10.9	63	51	59	58	0.0	256	4.30
13	9.8	12.6	12.9	11.8	55	78	86	73	1.1	360	10.00
14	12.7	11.8	11.0	11.8	84	71	68	74	1.3	270	22.50
15	13.4	12.0	10.1	11.8	74	65	57	65	3.8	209	0.35
16	9.7	11.3	10.6	10.5	49	51	57	52	7.4	251	
17	10.5	14.5	14.7	13.2	50	77	91	73	3.2	246	3.50
18	13.2	13.5	13.5	13.4	76	70	77	74	5.0	151	9.70
19	11.4	11.5	12.4	11.8	66	55	67	63	5.0	132	
20	10.2	11.3	11.5	11.0	58	56	68	61	8.2	113	
21	8.9	13.5	12.7	11.7	51	93	76	73	1.3	404	62.45
22	14.7	13.2	12.3	13.4	85	73	74	77	0.0	542	53.73
23	13.2	11.4	10.5	11.7	86	70	65	74	0.2	238	12.06
24	11.2	11.1	9.8	10.7	72	64	64	67	7.1	114	0.10
25	9.7	11.1	11.5	10.8	62	61	73	65	7.4	95	
26	12.8	12.3	10.6	11.9	82	65	60	69	0.4	182	1.30
27	12.3	14.4	14.5	13.7	64	72	79	72	3.2	283	0.10
28	13.4	16.0	15.0	14.8	74	80	83	79	7.3	90	
29	13.5	13.6	11.3	12.8	81	67	64	71	7.8	40	
30	10.0	14.4	11.9	12.1	51	67	62	60	6.4	48	
31	10.8	15.7	13.5	13.3	59	78	76	71	7.4	143	1.15
	11.95	13.34	12.40	12.56	65.4	67.2	69.2	67.3	4.36	190.74	7.33

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric date from reading of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M. O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20.30 for the preceding 24 hours.
71 year averages are for period. 1875 - 1943

DECEMBER 1961

METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast – 10				beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	0	0	0.0	1s	2ne	0	light	D; a.m.
2	0	10ci	0	3.3	3sw	1ne	0	,,	D; a.m. p.m.
3	10st	8ci-cu	0	6.0	2se	1ne	2se	,,	
4	9cu	10ci-st	8ci-cu	9.0	2e	3ne	3e	,,	
5	9st-ci	8st	6cu-ci	7.7	3e	3ne	4sw	,,	
6	10st	3cu-st	0	4.3	4ne	3sw	0	light	
7	10st	9st-cu	7cu-ni	8.7	2sw	3sw	2ne	,,	
8	10st	9ci-cu	0	6.3	4sw	4sw	2sw	,,	
9	7cu-st	10cu-st	0	5.7	4sw	6sw	4sw	,,	
10	10ci-cu	10st-cu	3cu	7.7	3sw	6sw	1sw	,,	
11	10ni	10st-ni	10st-ni	10.0	2ne	4sw	4sw	light	
12	10st	10st	10st	10.0	4sw	5sw	5sw	,,	
13	10st	10st-ni	10ni	10.0	4s	5sw	4se	,,	
14	10ni	10st	3cu-st	7.7	5nw	4sw	2sw	,,	
15	5cu-st	10st	2st	5.7	2s	3sw	5sw	,,	
16	2ci-cu	7cu-ci	0	3.0	4sw	4sw	3sw	slight	
17	9st-cu	10cu-st	10cu-ni	9.7	5sw	4sw	3e	,,	
18	10st-ni	9cu-ci	3cu	7.3	3s	3w	3se	light	
19	9ci	10cu-st	1st	6.7	0	3ne	2ne	,,	
20	0	0	7cu-st	2.3	3sw	3sw	1sw	,,	
21	5ci-st	10ni	10ni-st	8.3	3sw	7sw	6sw	slight	G; p.m.
22	10st-ni	10st	10st-ni	10.0	5sw	6w	3w	,,	W; a m.
23	10st-ni	10st-ni	9cu-st	9.7	3sw	3sw	3sw	light	
24	5cu	6cu-st	6cu-st	5.7	2sw	3w	2e	,,	
25	1cu-ci	1ci-st	1cu-st	1.0	1se	2sw	1se	,,	
26	10st	10st	10st	10.0	2s	4sw	4s	light	
27	10st	4cu-st	9cu-st	7.7	4sw	3sw	3sw	,,	
28	5st-ci	3st	2st	3.3	3sw	3sw	2e	,,	D; p.m
29	0	10st	0	3.3	1e	3ne	1e	,,	D; a.m.
30	9st	3cu-st	0	4.0	1s	2ne	2e	,,	
31	1cu	3cu	9st-ni	4.3	2se	2sw	2se	,,	T; p.m.
				6.40					

Abbreviation : G = gale ; H = haze ; M = mist ; T = Thunderstorm ; D = dew
W = strong wind ; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	0	2	3	3	6	15	0	1	1	31
14:30	0	8	0	0	0	20	3	0	0	31
20:30	0	2	6	5	1	13	1	0	3	31
Total	0	12	9	8	7	48	4	1	4	93

Number of days with rain 18, fog 0, Thunderstorms 1, gale 1

71-yrs. average number of days with rain during month 13.4